## RECEIVED CENTRAL FAX CENTER

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## IN THE CLAIMS

Amended claims follow:

- 1. (Currently Amended) A computer program product for controlling a computer, said computer program product comprising:
- (i) scan request receiving logic operable to receive a request to perform an onaccess malware scan upon a computer file to which access is to be made;
- (ii) scan dividing logic operable to divide said on-access malware scan into a plurality of tasks;
- (iii) task issuing logic operable to issue said plurality of tasks to be performed by a plurality of different computers; and
- (iv) result collating logic operable to collate a plurality of task results corresponding to said plurality of tasks and received from said plurality of different computers to form a scan result corresponding to said on-access malware scan.
- 2. (Currently Amended) A computer program product as claimed in claim 1, wherein said scan dividing logic <u>further</u> divides said computer file into a plurality of component computer files to be separately scanned as said plurality of tasks.
- 3. (Currently Amended) A computer program product as claimed in claim 2, wherein said computer file contains one or more embedded computer files which are <u>further</u> divided out as component computer files.
- 4. (Original) A computer program product as claimed in claim 3, wherein said computer file is one of the following computer file types: OLE2, ZIP, CAB, ARJ, RAR, ACE, JAR, ARC, LHA, LZH, ICE and Stuffit.
- 5. (Currently Amended) A computer program product as claimed in claim 1, wherein said scan dividing logic <u>further</u> divides said on-access malware scan into a plurality of on-access malware scans for identifying different properties of said computer

file, said plurality of on-access malware scans being separately performed as said plurality of tasks.

6. (Currently Amended) A computer program product as claimed in claim 5, wherein said plurality of tasks each seek to <u>further</u> identify different portions of one of a cryptographic analysis and an emulation analysis.

- 4 -

- 7. (Original) A computer program product as claimed in claim 1, wherein said on-access malware scan of said computer file seeks to identify one or more of:
  - (i) a computer virus;
  - (ii) a Trojan computer program;
  - (iii) a worm computer program;
  - (iv) a banned computer program; and
  - (v) an e-mail containing banned content.
- 8. (Currently Amended) A computer program product as claimed in claim 1, wherein one or more of said tasks are linerfurther divided into sub-tasks.
- 9. (Currently Amended) A computer program product as claimed in claim 1, wherein a task is <u>further</u> selected to be issued to a different computer in dependence upon one or more of:
  - (i) a measure of available processing resources at said different computer;
  - (ii) a measure of communication channel bandwidth to said different computer;
  - (iii) a measure of task complexity of said task to be issued; and
  - (iv) a measure of processor utilization of said different computer.
- 10. (Currently Amended) A computer program product as claimed in claim 1, wherein said scan dividing logic does not <u>further</u> divide said on-access malware scan if said on-access malware scan is detected as having a complexity below a predetermined threshold level.

- 11. (Currently Amended) A computer program product as claimed in claim 10, wherein said complexity is <u>further</u> determined as a function of one or more of:
  - (i) a file type of said computer file;
  - (ii) whether said computer file contains any embedded computer files;
  - (iii) a level of nesting of embedded files within said computer file;
- (iv) an initial scanning attempt of said computer file taking longer than a predetermined time; and
  - (v) processor utilization of a computer initiating said request.
- 12. (Currently Amended) A computer program product as claimed in claim 1, wherein said result collating logic <u>further</u> terminates any outstanding tasks if a task result is received indicating detection of malware within said computer file.
- 13. (Currently Amended) A computer program product for controlling a computer, said computer program product comprising:
- (i) task receiving logic operable to receive a request to perform a malware scanning task that is part of an on-access malware scan of a computer file requested by another computer;
  - (ii) scanning logic operable to perform said malware scanning task; and
- (iii) result returning logic operable to return a result of said malware scanning task;

wherein said malware scanning task is one of a plurality of malware scanning tasks that are each part of said on-access malware scan;

wherein a plurality of malware scanning task results corresponding to said plurality of malware scanning tasks are collated to form a scan result corresponding to said on-access malware scan[[]].

14. (Currently Amended) A computer program product as claimed in claim 13, wherein said computer file is <u>further</u> divided into a plurality of component computer files to be separately scanned as separate malware scanning tasks.

- 15. (Currently Amended) A computer program product as claimed in claim 13, wherein said on-access malware scan of said computer file is <u>further</u> divided into said plurality of on-access malware scanning tasks for identifying different properties of said computer file, said plurality of on-access malware scanning tasks being separately performed.
- 16. (Currently Amended) A method of performing an on-access malware scan of a computer file, said method comprising the steps of:
- (i) receiving a request to perform an on-access malware scan upon a computer file to which access is to be made;
  - (ii) dividing said on-access malware scan into a plurality of tasks;
- (iii) issuing said plurality of tasks to be performed by a plurality of different computers; and
- (iv) collating a plurality of task results corresponding to said plurality of tasks and received from said plurality of different computers to form a scan result corresponding to said on-access malware scan.
- 17. (Currently Amended) A method as claimed in claim 16, wherein said computer file is <u>further</u> divided into a plurality of component computer files to be separately scanned as said plurality of tasks.
- 18. (Currently Amended) A method as claimed in claim 17, wherein said computer file contains one or more embedded computer files which are <u>further</u> divided out as component computer files.
- 19. (Original) A method as claimed in claim 18, wherein said computer file is one of the following computer file types: OLE2, ZIP, CAB, ARJ, RAR, ACE, JAR, ARC, LHA, LZH, ICE and StuffIt.
- 20. (Currently Amended) A method as claimed in claim 16, wherein said on-access malware scan is <u>further</u> divided into a plurality of on-access malware scans for

OCT. 30. 2006 1:31PM

identifying different properties of said computer file, said plurality of on-access malware scans being separately performed as said plurality of tasks.

- 21. (Currently Amended) A method as claimed in claim 20, wherein said plurality of tasks each seek to <u>further</u> identify different portions of one of a cryptographic analysis and an emulation analysis.
- 22. (Currently Amended) A method as claimed in claim 16, wherein said on-access malware scan of said computer file <u>further</u> seeks to identify one or more of:
  - (i) a computer virus;
  - (ii) a Trojan computer program;
  - (iii) a worm computer program;
  - (iv) a banned computer program; and
  - (v) an e-mail containing banned content.
- 23. (Original) A method as claimed in claim 16, wherein one or more of said tasks are further divided into sub-tasks.
- 24. (Currently Amended) A method as claimed in claim 16, wherein a task is <u>further</u> selected to be issued to a different computer in dependence upon one or more of:
  - (i) a measure of available processing resources at said different computer;
  - (ii) a measure of communication channel bandwidth to said different computer;
  - (iii) a measure of task complexity of said task to be issued; and
  - (iv) a measure of processor utilization of said different computer.
- 25. (Currently Amended) A method as claimed in claim 16, wherein said on-access malware scan is not <u>further</u> divided if said on-access malware scan is detected as having a complexity below a predetermined threshold level.
- 26. (Currently Amended) A method as claimed in claim 25, wherein said complexity is <u>further</u> determined as a function of one or more of:

- (i) a file type of said computer file;
- (ii) whether said computer file contains any embedded computer files;
- (iii) a level of nesting of embedded files within said computer file;
- (iv) an initial scanning attempt of said computer file taking longer than a predetermined time; and
  - (v) processor utilization of a computer initiating said request.
- 27. (Currently Amended) A method as claimed in claim 16, wherein any outstanding tasks are <u>further</u> terminated if a task result is received indicating detection of malware within said computer file.
- 28. (Previously Presented) A method of on-access malware scanning, said method comprising the steps of:
- (i) receiving a request to perform a malware scanning task that is part of an onaccess malware scan of a computer file requested by another computer;
  - (ii) performing said malware scanning task; and
  - (iii) returning a result of said malware scanning task;

wherein said malware scanning task is one of a plurality of malware scanning tasks that are each part of said on-access malware scan;

wherein a plurality of malware scanning task results corresponding to said plurality of malware scanning tasks are collated to form a scan result corresponding to said on-access malware scan.

- 29. (Currently Amended) A method as claimed in claim 28, wherein said computer file is <u>further</u> divided into a plurality of component computer files to be separately scanned as separate malware scanning tasks.
- 30. (Currently Amended) A method claimed in claim 28, wherein said on-access malware scan of said computer file is <u>further</u> divided into said plurality of on-access malware scanning tasks for identifying different properties of said computer file, said plurality of on-access malware scanning tasks being separately performed.

- 31. (Currently Amended) Apparatus for performing an on-access malware scan of a computer file, said apparatus comprising:
- (i) a scan request receiver operable to receive a request to perform an on-access malware scan upon a computer file to which access is to be made;
- (ii) a scan divider operable to divide said on-access malware scan into a plurality of tasks:
- (iii) a task issuer operable to issue said plurality of tasks to be performed by a plurality of different computers; and
- (iv) a result collator operable to collate a plurality of task results corresponding to said plurality of tasks and received from said plurality of different computers to form a scan result corresponding to said on-access malware scan.
- 32. (Currently Amended) Apparatus as claimed in claim 31, wherein said scan divider further divides said computer file into a plurality of component computer files to be separately scanned as said plurality of tasks.
- 33. (Currently Amended) Apparatus as claimed in claim 32, wherein said computer file contains one or more embedded computer files which are <u>further</u> divided out as component computer files.
- 34. (Original) Apparatus as claimed in claim 33, wherein said computer file is one of the following computer file types: OLE2, ZIP, CAB, ARJ, RAR, ACE, JAR, ARC, LHA, LZH, ICE and Stufflt.
- 35. (Currently Amended) Apparatus as claimed in claim 31, wherein said scan divider further divides said on-access malware scan into a plurality of on-access malware scans for identifying different properties of said computer file, said plurality of on-access malware scans being separately performed as said plurality of tasks.
- 36. (Currently Amended) Apparatus as claimed in claim 35, wherein said plurality of

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